

Review spatial objective and performance metrics for use in the Hake MSE

JMC meeting

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On behalf of the MSE analyst team

Defining spatially explicit performance metrics

Both parties can achieve their intended benefits under the treaty

4a	Each country has the opportunity to attain their allocation of the TAC as specified in the treaty.	The exploitable (age 2+) biomass in Canadian waters during the fishing season is greater than the Canadian allocated TAC > 90 percent of years	$V_{CA} > 0.2612TAC / u_{CA}^*$ V_{CA} =age 2+ biomass in Canada u_{CA}^* = intended Canadian harvest rate
4b		The exploitable (age 2+) biomass in US waters during the fishing season is greater than the US allocated TAC > 90 percent of years	$V_{US} > 0.7388TAC / u_{US}^*$ V_{US} =age 2+ biomass in US u_{US}^* = intended US harvest rate

What is a plausible upper limit on exploitation rate? A starting place...

- ▶ Total catch or TAC by country
- ▶ Coastwide biomass estimate from assessment model
- ▶ Proportion of the acoustic survey biomass in each country in survey years

CA Catch (or TAC)/ (Coastwide biomass * CA proportion of survey biomass)

Exploitation Rates

